

United States Patent and Trademark Office



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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

10/07/2003

JIM L. FUNKE DELPHI TECHNOLOGIES, INC. LEGAL STAFF - MAIL CODE A-107 KOKOMO, IN 46904-9005

EXAMINER	
VERBITSKY, GAIL KAPLAN	

PAPER NUMBER

ART UNIT

DATE MAILED: 10/07/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/065,447	10/18/2002	Abhijeet V. Chavan	DP-306616	1391

TITLE OF INVENTION: MONOLITHICALLY-INTEGRATED INFRARED SENSOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	01/07/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL



Complete and send this form, together with applicable fee(s), to: Mail

5)

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

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INSTRUCTIONS: This for appropriate. All further con indicated unless corrected to maintenance fee notification	respondence including the I below or directed otherwise	smitting the ISSU Patent, advance or in Block 1, by (a	E FEE and PUBI ders and notificati) specifying a new	on of maintenance fees v correspondence address	ired). Blocks 1 through 4 s will be mailed to the current ; and/or (b) indicating a sep	hould be completed where correspondence address as arate "FEE ADDRESS" for	
CURRENT CORRESPONDENC	E ADDRESS (Note: Legibly mark-up	with any corrections or	use Block 1)	Note: A certificate of	mailing can only be used f	or domestic mailings of the	
7.5	10/07/0003			papers. Each addition:	is certificate cannot be used al paper, such as an assignm e of mailing or transmission.	ent or formal drawing, must	
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JIM L. FUNKE	OCIES INC			Ce I hereby certify that the	rtificate of Mailing or Tran us Fee(s) Transmittal is bein	smission g deposited with the United	
DELPHI TECHNO	MAIL CODE A-107			States Postal Service	nis Fee(s) Transmittal is bein with sufficient postage for fu il Stop ISSUE FEE address	st class mail in an envelope	
KOKOMO, IN 469				transmitted to the USF	TO, on the date indicated be	low.	
						(Depositor's name)	
						(Signature)	
					***	(Date)	
APPLICATION NO.	FILING DATE	1	FIRST NAMED INV	ENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
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VERBITSKY, C		2859		374-137000			
 Change of correspondence CFR 1.363). 	e address or indication of "Fe	ee Address" (37		on the patent front page, to 3 registered patent a			
_	ence address (or Change of C	Correspondence	agents OR, alte	ernatively, (2) the name	of a single		
Address form PTO/SB/12	22) attached.			s a member a registered names of up to 2 regist			
☐ "Fee Address" indication	on (or "Fee Address" Indicat or more recent) attached. Use	ion form	attorneys or ag		ts. If no name is listed, no name 3		
Number is required.			will be printed.				
3. ASSIGNEE NAME AND	RESIDENCE DATA TO B	E PRINTED ON T	HE PATENT (pri	nt or type)			
PLEASE NOTE: Unless	an assignee is identified bel	low, no assignee d	ata will appear on	the patent. Inclusion of a	ssignee data is only appropri	ate when an assignment has	
(A) NAME OF ASSIGN			-	Dietion of this form is NO CITY and STATE OR CO	Γa substitute for filing an ass UNTRY)	ignment.	
(11) 11111112 01 110010111		(, 1001021102. (0		J. 11111		
Please check the appropriate	assignee category or category	ries (will not be no	inted on the natent); ☐ individual ☐ (corporation or other private g	roup entity	
4a. The following fee(s) are			. Payment of Fee(s		corporation of outer private g	loup chary Gevernment	
☐ Issue Fee			_ ` `	amount of the fee(s) is en	closed.		
☐ Publication Fee			☐ Payment by cre	dit card. Form PTO-2038	is attached.		
☐ Advance Order - # of	Copies		The Director is Deposit Account	s hereby authorized by c	harge the required fee(s), or	credit any overpayment, to	
Director for Patents is reque	cted to apply the Iccue Fee or	nd Dublication Fee	<u> </u>	•	(enclose an extra o		
Director for Faterits is reque	sted to apply the issue ree at	nd Fublication Fee	(if any) or to re-ap	pry any previousry paid i	ssue fee to the application ide	milled above.	
(Authorized Signature)		(Date)					
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NOTE; The Issue Fee and other than the applicant; interest as shown by the re-	d Publication Fee (if require a registered attorney or age cords of the United States Pa	ed) will not be ac- ent; or the assigne- tent and Trademar	cepted from anyon se or other party k Office.	ne in			
This collection of informa	tion is required by 37 CFR	1.311. The inform	nation is required	to			
application. Confidentiality	by the public which is to fi y is governed by 35 U.S.C. 1	22 and 37 CFR 1.1	4. This collection	is			
completed application for	y is governed by 35 U.S.C. I tes to complete, including go in to the USPTO. Time will the amount of time you r	iuienng, prepanng I vary depending	, and submitting the upon the individu	al			
case. Any comments on suggestions for reducing t	the amount of time you r his burden, should be sent t	equire to complete to the Chief Inform	te this form and/ nation Officer, U.	or S.			
Patent and Trademark (22313-1450. DO NOT S	his burden, should be sent of Office, U.S. Department END FEES OR COMPLE	of Commerce, A TED FORMS TO	lexandria, Virgin THIS ADDRES	ia S.			
SEND TO: Commissioner	for Patents, Alexandria, Virg	ginia 22313-1450.					

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10/065,447	10/18/2002	Abhijeet V. Chavan	DP-306616	1391
75	10/07/2003		EXAM	INER
JIM L. FUNKE DELPHI TECHNO	N OGIES INC		VERBITSKY, C	GAIL KAPLAN
	MAIL CODE A-107		ART UNIT	PAPER NUMBER
KOKOMO, IN 469	004-9005		2859	
			DATE MAILED: 10/07/200	3

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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7:	590 10/07/2003		EXAM	INER
JIM L. FUNKE DELPHI TECHNO	OLOGIES INC		VERBITSKY, C	GAIL KAPLAN
	MAIL CODE A-107		ART UNIT	PAPER NUMBER
KOKOMO, IN 469	904-9005		2859	
			DATE MAILED: 10/07/200	3

Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2003. See Revision of Patent Fees for Fiscal Year 2004; Final Rule, 68 Fed. Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

(c) Issue fee for issuing a plant patent:

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	
Nedica & Allamabilita	10/065,447	CHAVAN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Gail Verbitsky	2859	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSE or other appropriate cor IGHTS. This application	D in this application. If not include nmunication will be mailed in due o	d course. THIS
 This communication is responsive to The allowed claim(s) is/are 1-22. The drawings filed on 18 October 2002 are accepted by the drawings filed on 18 October 2002 are accepted by the drawings filed on a claim for foreign priority uner a) All b) Some* c) None of the: 	der 35 U.S.C. § 119(a)-(d	i) or (f).	
1. Certified copies of the priority documents have		estion No	
Certified copies of the priority documents have Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Acknowledgment is made of a claim for domestic priority uses a claim for domestic priority uses. Acknowledgment is made of a claim for domestic priority uses. Acknowledgment is made of a claim for domestic priority uses.	cuments have been rece ander 35 U.S.C. § 119(e) application has been rece	eived in this national stage applicati (to a provisional application). eived.	on from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	this application. THIS	THREE-MONTH PERIOD IS NOT I	EXTENDABLE.
7. A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which gives rea	nitted. Note the attached son(s) why the oath or do	EXAMINER'S AMENUMENT or Neclaration is deficient.	OTICE OF
 8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftspe 1) hereto or 2) to Paper No. (b) including changes required by the proposed drawing (c) including changes required by the attached Examine 	correction filed,	which has been approved by the E	
Identifying indicia such as the application number (see 37 CFR each sheet.	1.84(c)) should be written	on the drawings in the front (not the	back) of
9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR	osit of BIOLOGICAL M THE DEPOSIT OF BIOLO	ATERIAL must be submitted. N OGICAL MATERIAL.	lote the
Attachment(s)			
1⊠ Notice of References Cited (PTO-892) 3□ Notice of Draftperson's Patent Drawing Review (PTO-948) 5⊠ Information Disclosure Statements (PTO-1449), Paper No. 2 7□ Examiner's Comment Regarding Requirement for Deposit of Biological Material	4∏ Inter 2. 6∏ Exar 8⊠ Exar 9∏ Othe	ce of Informal Patent Application (Frview Summary (PTO-413), Paper Inniner's Amendment/Comment miner's Statement of Reasons for Aper Inc. Color	No
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Art Unit: 2859

Examiner's Statement of reasons for Allowance

1. Claims 1-22 are allowed because the prior art of record fails to teach an infrared sensor comprising thermopiles being interlaced so that the output of a first of the thermopiles increases with increasing temperature difference between the hot and cold junctions, and so that the output of a second of the thermopiles decreases with increasing temperature difference between the hot and cold junctions, in combination with the remaining limitations of claim 1 and claims 2-22.

Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art cited in the PTO-892 and not mentioned above disclose related devices and methods.

Any inquiry concerning this communication should be directed to the Examiner Verbitsky who can be reached at (703) 306-5473 Monday through Friday 8:00 to 4:00 ET.

Any inquiry of general nature should be directed to the Group Receptionist whose telephone number is (703) 308-0956.

GKV

Gail Verbitsky

Patent Examiner, TC 2800

04 October 2003